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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,344	02/09/2004	Toshiharu Ohta	248475US0CIP	9585
22850 7590 02/26/2007 OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER	
			ROBINSON, BINTA M	
			ART UNIT	PAPER NUMBER
			1625	
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE	
3 MON	NTHS	02/26/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/773,344	OHTA ET AL.			
Office Action Summary	Examiner	Art Unit			
,	Binta M. Robinson	1625			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status	,	• •			
1) Responsive to communication(s) filed on 2a) This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowar	action is non-final.	secution as to the merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) Claim(s) 60-97 is/are pending in the application. 4a) Of the above claim(s) 61-78 and 80-97 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 60 and 79 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any accomplicated any objection to the Replacement drawing sheet(s) including the correct and the same of the sa	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 10/481,629. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date See Continuation Sheet.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

Continuation of Attachment (s) 3). Information Disclosure Statement (s) (PTO/SB/08), Paper No(s)/Mail Date :8/4/06;6/8/06;11/29/05;8/31/05;8/16/04;07/0704;06/01/04.

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Detailed Action

The applicant asserts in his remarks that the new claims are suitable for examination on the merits, and has only elected a species rather than electing one of the groups set forth in the restriction requirement dated 9/28/06. However, the new claims are distinct inventions in that compounds are being claimed, which are distinct from the method of using these compounds. Since the applicant elected a single species, and this species falls within the compound claims, the compound claims 60, 79 will be examined, and claims 61-78, 80-97 are withdrawn from consideration as being drawn to non-elected claims.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 60 and 79 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for making salts of the claimed compounds, does not reasonably provide enablement for making solvates and N-oxides of the claimed compounds. The specification does not enable any person skilled in the art of synthetic organic chemistry to make the invention commensurate in scope with these claims. "The factors to be considered [in making an enablement rejection] have been summarized as a) the quantity of experimentation necessary, b) the

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amount of direction or guidance presented, c) the presence or absence of working examples, d) the nature of the invention, e) the state of the prior art, f) the relative skill of those in that art, g) the predictability or unpredictability of the art, h) and the breadth of the claims", *In re Rainer*, 146 USPQ 218 (1965); *In re Colianni*, 195 USPQ 150, *Ex parte Formal*, 230 USPQ 546. In the present case the important factors leading to a conclusion of undue experimentation are the absence of any working example of a formed solvate, the lack of predictability in the art, and the broad scope of the claims.

c) There is no working example of any solvate formed or N-oxide formed. The claims are drawn to solvates, yet the numerous examples presented all failed to produce a solvate. These cannot be simply willed into existence. As was stated in *Morton International Inc. v. Cardinal Chemical Co.*, 28 USPQ2d 1190 "The specification purports to teach, with over fifty examples, the preparation of the claimed compounds with the required connectivity. However ... there is no evidence that such compounds exist... the examples of the '881 patent do not produce the postulated compounds... there is ... no evidence that such compounds even exist." The same circumstance appears to be true here. There is no

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evidence that solvates of these compounds actually exist; if they did, they

would have formed. Hence, applicants must show that solvates can be

made, or limit the claims accordingly.

g) The state of the art is that is not predictable whether solvates will

form or what their composition will be. In the language of the physical

chemist, a solvate of organic molecule is an interstitial solid solution. This

phrase is defined in the second paragraph on page 358 of West (Solid

State Chemistry). West, Anthony R., "Solid State Chemistry and its Applications, Wiley, New York, 1988,

pages 358 & 365. The solvent molecule is a species introduced into the crystal

and no part of the organic host molecule is left out or replaced. In the first

paragraph on page 365, West (Solid State Chemistry) says, "it is not

usually possible to predict whether solid solutions will form, or if they do

form what is their compositional extent". Thus, in the absence of

experimentation one cannot predict if a particular solvent will solvate any

particular crystal. One cannot predict the stoichiometery of the formed

solvate, i.e. if one, two, or a half a molecule of solvent added per molecule

of host. In the same paragraph on page 365 West (Solid State Chemistry)

explains that it is possible to make meta-stable non-equilibrium solvates,

further clouding what Applicants mean by the word solvate. Compared with

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polymorphs, there is an additional degree of freedom to solvates, which means a different solvent or even the moisture of the air that might change the stabile region of the solvate.

h) The breadth of the claims includes all of the various compounds of cited in claim 60 and 79 as well as the presently unknown list of solvents embraced by the term "solvate". Thus, the scope is broad.

MPEP 2164.01(a) states, "A conclusion of lack of enablement means that, based on the evidence regarding each of the above factors, the specification, at the time the application was filed, would not have taught one skilled in the art how to make and/or use the full scope of the claimed invention without undue experimentation. *In re Wright*, 999 F.2d 1557,1562, 27 USPQ2d 1510, 1513 (Fed. Cir. 1993)." That conclusion is clearly justified here. Thus, undue experimentation will be required to practice Applicants' invention.

The elected species is allowable.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binta M. Robinson whose telephone number is (571) 272-0692. The examiner can normally be reached on M-F (9:30-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Thomas McKenzie can be reached on 571-272-0670.

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A facsimile center has been established. The hours of operation are Monday through Friday, 8:45 AM to 4:45 PM. The telecopier numbers for accessing the facsimile machine are (703)308-4242, (703)305-3592, and (703)305-3014.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571)-272-1600.

BMR February 16, 2007

> THOMAS MCKENZIE, PH.D. SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600